

US DEPARTMENT OF AGRICULTURE  
FOREST SERVICE



*Northeastern Area*  
*State & Private Forestry*  
**DIVISION OF FOREST PEST CONTROL**

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NO JACK PINE BUDWORM DEFOLIATION  
FOUND ON THE CHIPPEWA NATIONAL FOREST

By Glen Erickson

#### INTRODUCTION

Jack pine budworm, Chroistoneura pinus pinus Freeman, defoliation has occurred in northern Minnesota during most of the last decade. The last extensive defoliation on the Chippewa National Forest occurred in 1966 and 1967. Only one small area along the Mississippi River west of Lake Winnibigoshish had visible defoliation in 1968.

#### METHODS

An aerial survey was flown August 21-22, 1969, in the Forest Service Aero-Commander. Flights were in a north-south direction, in parallel lines 6 miles apart; 1000 feet above the ground; at 100 m.p.h.

#### RESULTS

No jack pine budworm defoliation was observed on the Chippewa National Forest.

